SOLRAD 7A

MACHINE RED. 3 POINTS PER PASS

64-001D-01A

This data set has been restored. There was originally one 7-track, 556 BPI tape written in BCD. There is one restored tape written in ASCII. The DR tape is a 3480 cartridge and the DS tape is 9-track, 6250 BPI. The original tape was created on a 7094 computer. The DR and DS numbers along with the corresponding D number are as follows:

DR#	DS#	D#	FILES	TIME SPAN
DR004230	DS004230	D002846	1	01/12/64 - 08/31/64

SOLRAD 7A

HAND RED. 1 POINT PER PASS

64-001D-01B

This data set has been restored. There was originally one 7-track, 556 BPI tape written in BCD. There is one restored tape written in ASCII. The DR tape is a 3480 cartridge and the DS tape is 9-track, 6250 BPI. The original tape was created on a 7094 computer. The DR and DS numbers along with the corresponding D number are as follows:

DR#	DS#	D#	FILES	TIME SPAN
DR004231	DS004231	D002847	1	01/11/64 - 02/03/65

64-001D-01A

1964 001D
GREB 5

(01) Solar X-Ray

Tapes
D00088
D00089

NAME

DATE

X-RAY AND ULTRA-VIOLET EXPERIMENT

1964 01 D

Machine-reduced Data on 1 Card Image Magnetic Tape - 01A
(3 points per pass)

COLUMN	EXPLANATION
1-2	Year - 1900, i.e., 64
3-4	Month
5-6	Day of month
10-13	Universal time of start of pass Hour - minute
17-20	Universal time of end of pass Hour - minute
25-27	Orbit number
31-32	Station code (see attached list)
38-42 (F5.2)	Aspect angle
45-54 (E9.4)	44-60A flux
57-66 (E9.4)	8-12A flux

Timespan — Jan 12, 1964 to Aug. 31, 1964

The first card is a header card and the second card is blank.

TABLE 2

STATION IDENTIFICATION

CODE	STATION
HV	Hybla Valley, Virginia
SP	South Point, Hawaii
PM	Point Mugu, California
BP	Blossom Point, Md.
MO	Mojave
FM	Fort Myers, Florida
WK	Winkfield, England
CO	College, Alaska
LI	Lima, Peru
QU	Quito, Ecuador
PA	Point Arguello, California
WO	Woomera, Australia
GF	Grand Forks, Michigan
ST	Santiago, Chile
RO	Rosman, North Carolina
UL	Ulaska, Alaska
OR	Oroval
JO	Johannesburg, Union of S. Africa
KO	Kano
KI	Kauai
MA	Madagascar
NE	Newfoundland
CA	Canberria
KP	Kaena Point, Hawaii

64-001D-01B

X-RAY AND ULTRA-VIOLET EXPERIMENT

1964 01 D D-00089 C-7847

5046 Records

Hand-reduced Data on 1 Card Image Magnetic Tape
(1 point per pass)

Several cards (1 to 5) are present for each station pass reduced. The first 8 columns on each card are a serial number of unknown function and origin. Similarly an edit card number sometime appears in columns 77-80 of the first card of a station pass group and probably can be ignored. The first card of each group contains:

COLUMN	EXPLANATION
10-11	Year - 1900; i.e., 64
12-13	Month
14-15	Day of month
17-22	Universal time of start of pass Hour - minute - second
24-25	Station code (see attached list)
26-29	Pass number
31-32	Two letters - unknown purpose
34-39	Universal time of end of pass Hour - minute - second
41-50	2 words — unknown purpose
52-55 & 57-64	Refer to Ultra-violet detectors Purpose unknown
65-70	Refer to pulse width system (sun aspect sensors) Purpose unknown
77-80	Edit card number mentioned above

Second card:

COLUMN		EXPLANATION
17-28	=	ASPECT ANGLE
29-34 (dec. pt. in 32)		Aspect angle in degrees
49-51	=	UVI
53-59 (dec. pt. in 55)		Ultra-violet current

Any or all of the following cards are present to complete the group of cards representing each station pass:

COLUMN		EXPLANATION
9-12	=	X60 D
13-22 (dec. pt. in 16, E No.)		Current in the 44-60A detector
28-31	=	X60F

COLUMN		EXPLANATION
33-38 (dec. pt. in 34)		Flux for 44-60 A as computed from the 44-60A current
44-53	=	X020 (X60)F
55-60 (dec. pt. in 56)		Flux for 0-20 A as computed from the 44-60A current
63-67	=	X020F
69-74 (dec. pt. in 70)		Flux for 0-20A computed by adding the 0-8A flux from the 2-8 A detector current to the 8-20A flux calculated from the 8-14A detector current

COLUMN		EXPLANATION
9-12	=	X55I
13-22 (dec. pt. in 16, E No.)		Current in the 44-55A detector
24-27	=	X55F
29-35 (dec. pt. in 31)		Flux for 44-55A as computed from the 44-55A current
38-41	=	X16I
43-51 (dec. pt. in 45, E No.)		Current in the 8-16A detector
54-58	=	X820F
60-66 (dec. pt. in 62)		Flux for 8-20A as computed from the 8-16A current
68-72	=	X550F
74-80 (dec. pt. in 76)		Flux for 44-55A as computed from the 44-60A flux

COLUMN		EXPLANATION
9-12	=	X28I
13-22 (dec. pt. in 16, E No.)		Current in the 2-8A detector
23	=	X Purpose unknown
25-28	=	X08F
30-36 (dec. pt. in 32)		Flux for 0-8A as computed from the 2-8A current
39-42	=	X14I
44-52 (dec. pt. in 46, E No.)		Current in the 8-14A detector
55-58	=	X12F
60-66 (dec. pt. in 62)		Flux for 8-12A as computed from 8-14A detector
68-72	=	X820F
74-80 (dec. pt. in 76)		Flux for 8-20A as computed from the 8-14A detector

Timespan of Data

Ultra-violet detectors	Jan 11, 1964 to Jan. 12, 1964
44-55A detector	Jan 11, 1964 to Feb. 6, 1964
8-16A detector	Jan 11, 1964 to Feb. 6, 1964
2-8A detector 8-14A detector 44-60A detector	Jan 11, 1964 to Feb. 3, 1965

x16

TABLE 2

STATION IDENTIFICATION

CODE	STATION
HV	Hybla Valley, Virginia
SP	South Point, Hawaii
PM	Point Mugu, California
BP	Blossom Point, Md.
MO	Mojave
FM	Fort Myers, Florida
WK	Winkfield, England
CO	College, Alaska
LI	Lima, Peru
QU	Quito, Ecuador
PA	Point Arguello, California
WO	Woomera, Australia
GF	Grand Forks, Michigan
ST	Santiago, Chile
RO	Rosman, North Carolina
UL	Ulaska, Alaska
OR	Oroval
JO	Johannesburg, Union of S. Africa
KO	Kano
KI	Kauai
MA	Madagascar
NE	Newfoundland
CA	Canberria
KP	Kaena Point, Hawaii

X-RAY AND ULTRA-VIOLET EXPERIMENT

1964 01 D

Hand-reduced Data on 1 Card Image Magnetic Tape - 01B
(1 point per pass)

Several cards (1 to 5) are present for each station pass reduced. The first 8 columns on each card are a serial number of unknown function and origin. Similarly an edit card number sometime appears in columns 77-80 of the first card of a station pass group and probably can be ignored. The first card of each group contains:

COLUMN	EXPLANATION
10-11	Year - 1900, i.e., 64
12-13	Month
14-15	Day of month
17-22	Universal time of start of pass Hour - minute - second
24-25	Station code (see attached list)
26-29	Pass number
31-32	Two letters - unknown purpose
34-39	Universal time of end of pass Hour - minute - second
41-50	2 words — unknown purpose
52-55 & 57-64	Refer to Ultra-violet detectors Purpose unknown
65-70	Refer to pulse width system (sun aspect sensors) Purpose unknown
77-80	Edit card number mentioned above

Second card:

COLUMN		EXPLANATION
17-28	=	ASPECT ANGLE
29-34 (dec. pt. in 32)		Aspect angle in degrees
49-51	=	UVI
53-59 (dec. pt. in 55)		Ultra-violet current

Any or all of the following cards are present to complete the group of cards representing each station pass:

COLUMN		EXPLANATION
9-12	=	X60 D
13-22 (dec. pt. in 16, E No.)		Current in the 44-60A detector
28-31	=	X60F

COLUMN		EXPLANATION
33-38 (dec. pt. in 34)		Flux for 44-60 A as computed from the 44-60A current
44-53	=	X020 (X60)F
55-60 (dec. pt. in 56)		Flux for 0-20 A as computed from the 44-60A current
63-67	=	X020F
69-74 (dec. pt. in 70)		Flux for 0-20A computed by adding the 0-8A flux from the 2-8 A detector current to the 8-20A flux calculated from the 8-14A detector current

COLUMN		EXPLANATION
9-12	=	X55I
13-22 (dec. pt. in 16, E No.)		Current in the 44-55A detector
24-27	=	X55F
29-35 (dec. pt. in 31)		Flux for 44-55A as computed from the 44-55A current
38-41	=	X16I
43-51 (dec. pt. in 45, E No.)		Current in the 8-16A detector
54-58	=	X820F
60-66 (dec. pt. in 62)		Flux for 8-20A as computed from the 8-16A current
68-72	=	X550F
74-80 (dec. pt. in 76)		Flux for 44-55A as computed from the 44-60A flux

COLUMN		EXPLANATION
9-12	=	X28I
13-22 (dec. pt. in 16, E No.)		Current in the 2-8A detector
23	=	X Purpose unknown
25-28	=	X08F
30-36 (dec. pt. in 32)		Flux for 0-8A as computed from the 2-8A current
39-42	=	X14I
44-52 (dec. pt. in 46, E No.)		Current in the 8-14A detector
55-58	=	X12F
60-66 (dec. pt. in 62)		Flux for 8-12A as computed from 8-14A detector
68-72	=	X820F
74-80 (dec. pt. in 76)		Flux for 8-20A as computed from the 8-14A detector

Timespan of Data

Ultra-violet detectors	Jan 11, 1964 to Jan. 12, 1964
44-55A detector	Jan 11, 1964 to Feb. 6, 1964
8-16A detector	Jan 11, 1964 to Feb. 6, 1964
2-8A detector, 8-14A detector, 44-60A detector	Jan 11, 1964 to Feb. 3, 1965

ASCII LIST OF DS004230

FILE 1 RECORD 1 84 BYTES

DATE START STOP ORBIT ST ASP.ANG. 44-60 FLUX 8-12 FLUX

ASCII LIST OF DS004230

FILE 1 RECORD 2 84 BYTES

ASCII LIST OF DS004230

FILE 1 RECORD 3 84 BYTES

64 112 1438 1454 11 CO 0.00 .0000E-99 .0000E-99

ASCII LIST OF DS004230

FILE 1 RECORD 4 84 BYTES

64 112 1958 2013 14 CO 0.00 .0000E-99 .0000E-99

ASCII LIST OF DS004230

FILE 1 RECORD 5 84 BYTES

113 1651 1706 26 FM 0.00 .0000E-99 .0000E-99

ASCII LIST OF DS004230

FILE 1 RECORD 3211 84 BYTES

64 831 1954 1955 3242 ST 0.00 .0000E-99 .0000E-99

ASCII LIST OF DS004230

FILE 1 RECORD 3212 84 BYTES

64 831 2053 2108 3243 CO 18.45 .1999E-01 .0000E-99

ASCII LIST OF DS004230

FILE 1 RECORD 3213 84 BYTES

64 831 2104 2118 3243 MU 0.00 .0000E-99 .0000E-99

ASCII LIST OF DS004230

FILE 1 RECORD 3214 84 BYTES

64 831 2105 2116 3243 MO 0.00 .0000E-99 .0000E-99

ASCII LIST OF DS004230

FILE 1 RECORD 3215 84 BYTES

831 2240 2251 3244 CO 0.00 .0000E-99 .0000E-99

ASCII LIST OF DS004231

FILE 1 RECORD 1 84 BYTES

01112146 640111 214620 SP0001 CT 220140 5X60 6 UVO 7X14X16 8PW 253B

ASCII LIST OF DS004231

FILE 1 RECORD 2 84 BYTES

1112146 ASPECT ANGLE .98 UVI .2276

ASCII LIST OF DS004231

FILE 1 RECORD 3 84 BYTES

1112146X60I -1.7623 3 X60F .0177 X020%X60<F .0417 X020F .0098

ASCII LIST OF DS004231

FILE 1 RECORD 4 84 BYTES

1112146X55I .9744 3 X55F .0114 X16I -.3399 3 X820F .0066 X550F .0122

ASCII LIST OF DS004231

FILE 1 RECORD 5 84 BYTES

112146X28I 0.0000 4X X08F 0.0000 X14I .2199 3 X12F .0026 X820F .0098

ASCII LIST OF DS004231

FILE 1 RECORD 5041 84 BYTES

2 32048 X

ASCII LIST OF DS004231

FILE 1 RECORD 5042 84 BYTES

2 32227 65 2 3 222730 HV5415 BT 224230 5X60 6 0 7 X14 8PW XSAT847B

ASCII LIST OF DS004231

FILE 1 RECORD 5043 84 BYTES

2 32227 ASPECT ANGLE 14.80 PW

ASCII LIST OF DS004231

FILE 1 RECORD 5044 84 BYTES

2 32227X60I -3.1021 9 X60F .0313 X020%X60<F .0735 X020F 0.0000

ASCII LIST OF DS004231

FILE 1 RECORD 5045 84 BYTES

32227 X